

New Paradigms for Internetwork Security

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Each year the New Security Paradigms Workshop provides researchers with an informal environment in which to discuss new approaches to security with their peers. As such, it provides an excellent opportunity for feedback at an early stage of the work. This year, as in previous years, the Workshop has organized a panel based on some of the more interesting concepts presented at the Workshop. One very strong theme at this year's Workshop was the need to identify new approaches for providing security in very heterogeneous, highly internetworked environments.

Each of the participants on this panel writes of that need and proposes approaches for addressing it. In his paper, "The Emperor's Old Armor," Bob Blakley, from IBM in Austin, Texas, paints a grim picture of the current state of computer security and suggests a new set of foundational assumptions. In the paper, "Reactive Security and Social Control, written by Sverker Janson and his associates from the Swedish Institute of Computer Science, we find an argument for what they call soft security mechanisms, such as runtime monitoring and control of programs based on their expected behaviour. Steven Greenwald, from NRL, suggests that we use Role Based Access Control policies to put more control of resources in the hands of individual users. Finally, William Wulf and his colleagues describe the security

model for Legion, a highly heterogeneous distributed system that they intend to prototype at the University of Virginia.

As this note goes to press, we are planning on the following format, which is subject to change. After each panelist has presented an overview of his position, they will discuss each other's positions. This will be followed by a broader discussion involving the audience. Following a short break, we will have the room for another hour or so to allow for unstructured discussion among the panelists and the audience.